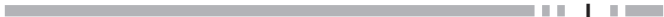## THANK YOU!

We are grateful you have chosen FM VHF/UHF portable transceiver. This 2-way radio represents novel design and stable performance. It is developed to meet the demands of portability, easy-operating and multifunction. Believes the small size and the reasonable price will satisfy your requirements.

SAFETY INFORMATION

SAFETY

It is important for you to read the following carefully in order to use this transceiver safely and efficiently.

- Please DO NOT try to open the transceiver. Modified by laypeople may do damage the transceiver.

- Please turn off your transceiver when you enter the place with the sign" Please turn off radio", such as hospital and other medical care place to avoid electromagnetism interfere or electromagnetic compatibility. Please turn off your 2way radio when it is requested by aircrew on the plane.

- Please DO NOT put the transceiver in the area of airbag if you are in a car with airbag.

- Please TURN OFF your transceiver before entering flammable and exposable place.

- Please DO NOT use broken antenna. Broken antenna might cause slight burn if it touches skin

- Please DO NOT expose the transceiver to direct sunlight for a long time: DO NOT place the transceiver near any heating devices. Either high temperature might shorten the life of electrical parts and also might cause some plastic transform.

- Please DO NOT put the transceiver in dusty or dirty place.

- Please keep the transceiver dry. Rain and damp may erode the PCB.

- If an abnormal odor or smoke is detected coming from the transceiver. TURN OFF the power immediately and remove the rechargeable battery pack from the transceiver and contact with your dealer.

CHECKING EQUIPMENT

Thank you for using T30 transceiver. Before using, we recommend you:

- Please check whether the package is broken.
- Unpack the transceiver carefully: Identify the items listed in the following table.
- If any damage or miss has occurred during shipment, contact with dealer immediately.

SUPPLIED ACCESSORIES

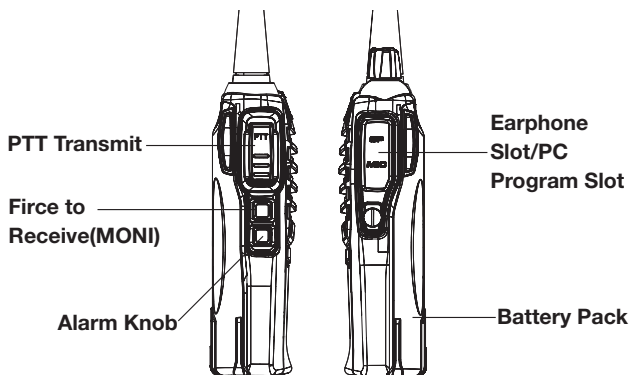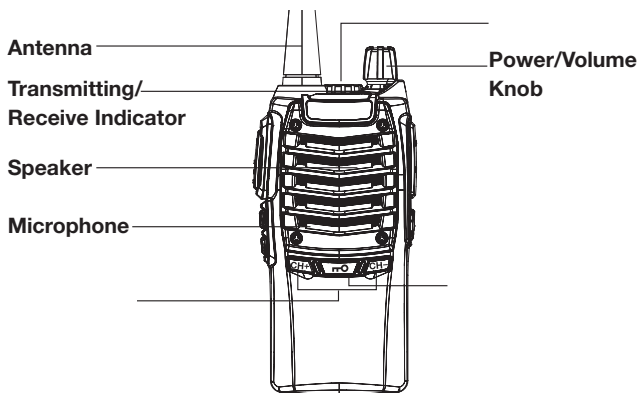| ITEM	QUANTITY
Antenna	1
Li-ion Battery	1
Desk Charger	1
Adapter	1
Belt Clip	1
User Manual	1

MAIN FUNCTION

- VHF Frequency Range: 136MHz -173.995MHz
- UHF Frequency Range: 400MHz~479.995MHz
- 16 Stored Channels
- CTCSS
- DCS
- Alarming Function
- PC program
- Wire Copy Function
- Chinese/English Channel Number Voice Annunciation

CONTENTS

Antenna

Power/Volume Knob

Transmitting/ Receive Indicator

Speaker

Microphone

PTT Transmit

Earphone Slot/PC Program Slot

Firce to Receive(MONI)

Alarm Knob

Battery Pack

Antenna	Rubber antenna used to receive and transmit signals.
Transmitting Indicator	Lights red while transmitting.
Receive Indicator	Lights green while receive.
Power/Volume Knob	Turn clockwise until a clatter to switch on the transceiver. Turn counterclockwise until a clatter to switch off the transceiver; Rotate to adjust the volume.
PTT Transmit	Press to get into transmits state, release to return to receive state.
Force to Receive (MONI)	Press to receive signal or noise in the channel your selected when in receive state.
Alarm knob	Press this knob 2 seconds, then the radio will alarm
Microphone	Input voice.
Earphone Slot/PC Program Slot	Connect with external earphone, or connect to PC by downloading frequency line and use software to download.
Speaker	Output voice.
Belt Clip	Clip the transceiver to you belt, making it convenient to take.
Battery Pack	3.7V Li-ion battery pack

CHARGING BATTERY PACK

The battery is not charged in the factory, and please charges it before using. The first charging can't reach full capability after buying or storing for a long time (more than two months). Please charge and discharge it for two or three times to make real capability reach full capability.

Plug the uncharged battery or transceiver with battery into charger, and make sure the battery contact with charging terminal. When the charging light turn red, charging has begun, and while the charging light turn green, charging has finished. Please do not keep charging over 20 hours, please pull out the plug while finished charging.
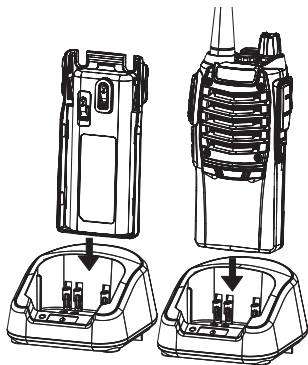
NOTICE:

- Please do not charge the battery again if it is charged fully, otherwise, the life of the battery will be shorted or it will be damaged.
- Please turn off the transceiver before charging. It may disturb charging if you use the transceiver when charging.
- It comes to the limit of the battery life if the use time of transceiver shorten obviously even charging is correct. Please change new battery pack.

INSTALLING/REMOVING BATTERY PACK
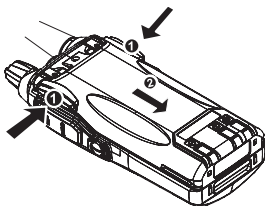
Match two juts on the top and two grooves at the bottom of the battery pack with the corresponding guides on the aluminous frame on the back of the transceiver. Slide the battery pack upon until hearing a clatter.
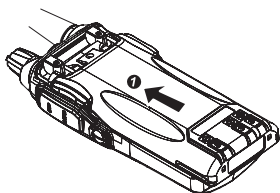
Please turn off the transceiver first before removing battery pack. Push battery latch on the button of the transceiver, then pull away from the transceiver.

INSTALLING THE BELT CLIP

Use two accessory screws fixing belt clip to make it convenient to take if necessary.
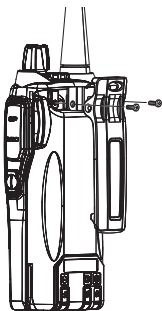
BASIC OPERATION

POWER ON/OFF

Turn the Power/Volume knob clockwise to switch on the transceiver, you will hear a beep.

Turn the Power/Volume knob counterclockwise to switch off the transceiver.

ADJUST VOLUME

Turn the Power/Volume knob clockwise to increase volume, and turn it counterclockwise to decrease volume.

- If you can't hear background noise because of squelch system, please hold **[MONI]** button, then turn the VOL control knob, You can hear background noise when press **[MONI]** button.

FREQUENCY SELECT

While you switch the channel, the voice remind your selected channel number, if you didn't set the frequency, you will hear the "beep".

TRANSMIT/RECEIVE

Press **[PTT]** button and speak normally when transmit preparation is ready.

- The transmit indicator lights red after enter transmit mode.
- It may increase distortion if you are too close to the MIC or speak too laud, and this may cause you voice unclear by receiver.

Release **[PTT]** button when the talk is over, and the mode will turn back to receive.

CHANNEL EDIT

PC Program:

Connect the program cable to the radio, and well connect the computer COM (communication port) and SP/MIC jack by program cable, turn on the radio at the same time.

Turn on the computer, and open the radio program soft. Then select the using frequency and other function parameters which you required, Afterward, press the **[Edit] [write to radio]**, or directly press the relative signal on the toolbar to start writing. After the progress bar finished, the screen will display **[Succeed]**. All the parameters on the screen have written in the radio.

Wire Copy:

Take out a programmed radio, while using a special data copy cable to connect to another radio which you want to copy data.

- The radio was copied should turn to channel 8. Press **[PTT]** button and **[Function]** button, and switch on the radio at the same time you will hear a beep in 5 seconds; release the **[Function]** button. The red light will on, which means under the copy mode.

- Using a special data copy cable to connect the SP/MIC jack of two radios. Firstly, turn on the coping radio,

- While everything is ready, the copied radio is light on, Press the **[MONI]** button to enter copy mode, the light of copied radio will shows red and flash, the light of coping radio will shows green and flash. The light of copied radio will shows red while the copy has finished.

- While copy data, if the indicator flash unnormal, it means copy failed, please check whether connect the wire well, while the copied radio is light on, press **[MONI]** button again.

- If you want to copy many radios, please turn off the copying radio's power, and cut off the wire, then change to connect another copying radio, and press **[MONI]** button of copied radio to start copy.

- Quit wired copy, you have to re-power of the radio, then the radio is workable.

TRANSMITTING TIME-OUT-TIMER

The purpose of the Transmitting time-out-timer is to prevent any single person from using one channel to transmit for an extended period of time.

BATTERY SAVING

Battery saving makes the transceiver cut down receiving circuit to decrease power consumption and longer use time when these is no signal.

BATTERY ELECTRICITY NOTICE

Low battery power alert will note you to charge the battery.

In case the battery has fully charged, the light will turn to red.

In case you hear beep, the radio will stop transmit, please change a new battery or charging the battery.

ALARMING FUNCTION

Press alarm knob 2 seconds to enter the alarming function, if while alarm, the channel has set the transmit frequency, the radio will auto transmit alarm voice. You can press alarm knob to cancel the alarm function.

SPECIFICATION

General Part	
Frequency Range	UHF: 36~173.995MHz VHF: 400~479.995MHz
Temperature Range	-10°C+60°C
Frequency Combination	Phase lock loop frequency synthesize
Rated Voltage	DC7.4V (Li-ion battery)
Stored Channel	16 channels
Antenna	Rubber antenna
Antenna Impedance	50Ω
Operation Mode	Simplex of co-frequency or alien frequency
Dimension	120mm×62mm×34mm
Weight	About 280g

Transmit Part	
Output Power	8W
Modulate Mode	Frequency modulate
Maximum Frequency Offset	≤ 5KHz
Adjacent channel power	≥ 65dB
spurious harrow (RF) components	≤ 7.5 uW
occupied frequency bandwidth	≤ 16KHZ
Carrier frequency tolerance	± 2.5ppm
Transmit Current	≤ :1400mA

Receive Part	
Sensitivity	<0.16uV(12dB SINAD)
Squelch Sensitivity	0.12uV
Audio Power	≥500mW
Receive Current	≤150mA
Squelch System Waiting Current	20mA

NOTICE:

- Saving your presence, no additional notice will be send if specification changes because of technology-improving.

COMMON ERROR AND SOLUTION

Error	Solution
On feedback when turn on the radio	• Battery power used up, please change the battery or recharging. • Wrong connect of battery, please remove the battery and reinstall it.
The power of battery easily get lost	• The battery life is ended, please use new battery.
Can't talk with other member in the same team	• Distance is out of the effect communicate range. • Apply with different frequency/DCS/CTCSS, please reset these parameter.
Appears voices from other non-member	• Please change your CTCSS signal, or change all the transceivers signal in your team.

FREQUENCY/INFORMATION LIST

Model No.:_____

Serial No.: _____

Channel	Transmit Frequency	Receive Frequency	CTCSS	DCS
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				